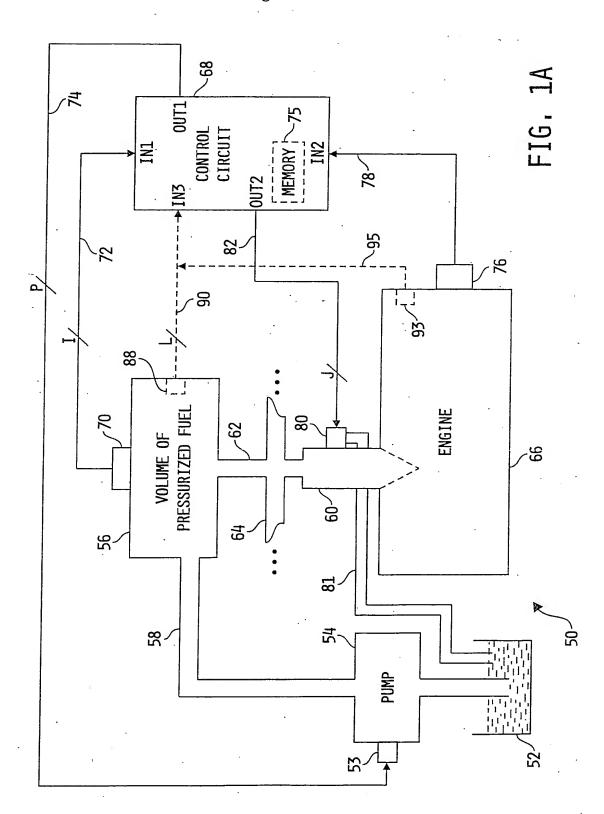
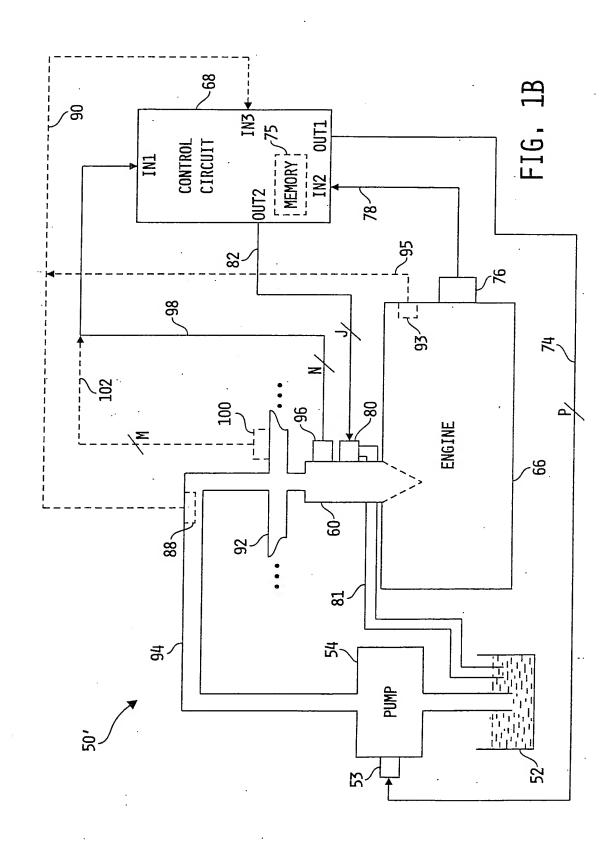
Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 1 Of 33

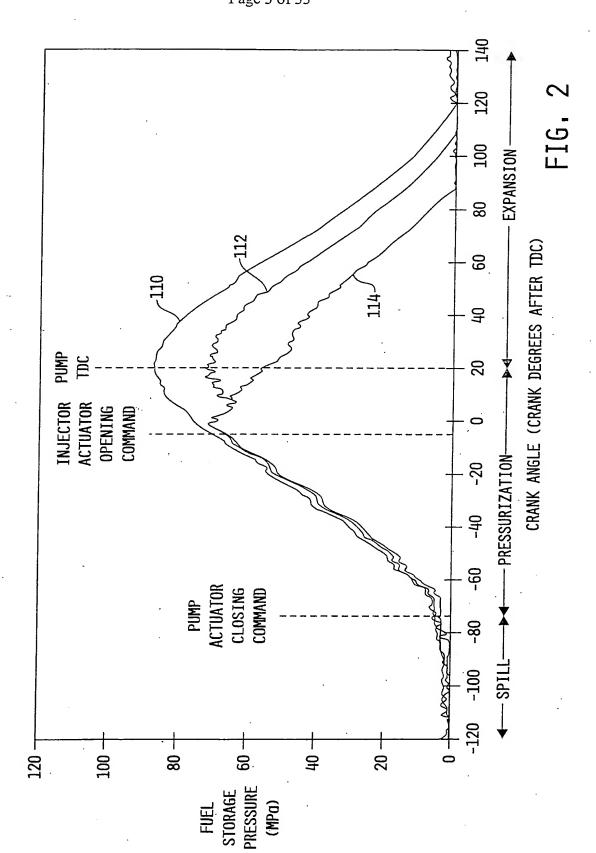


Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 2 of 33



Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636 Page 3 of 33



#### Title: SYSTEM FOR ESTIMATING A QUANTITY

OF PARASITIC LEAKAGE
Inventors: Tanker Tuken et al

Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 4 of 33

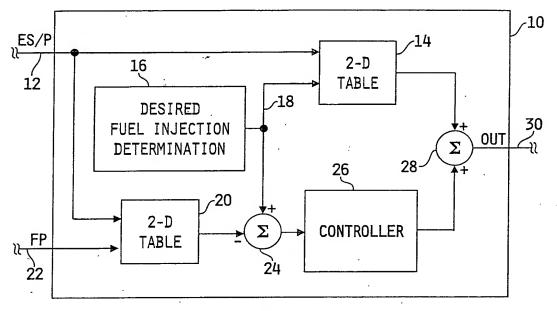


FIG. 3 (PRIOR ART)

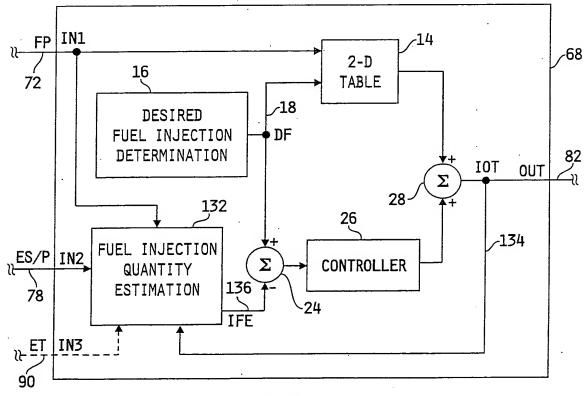


FIG. 4

Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 5 of 33

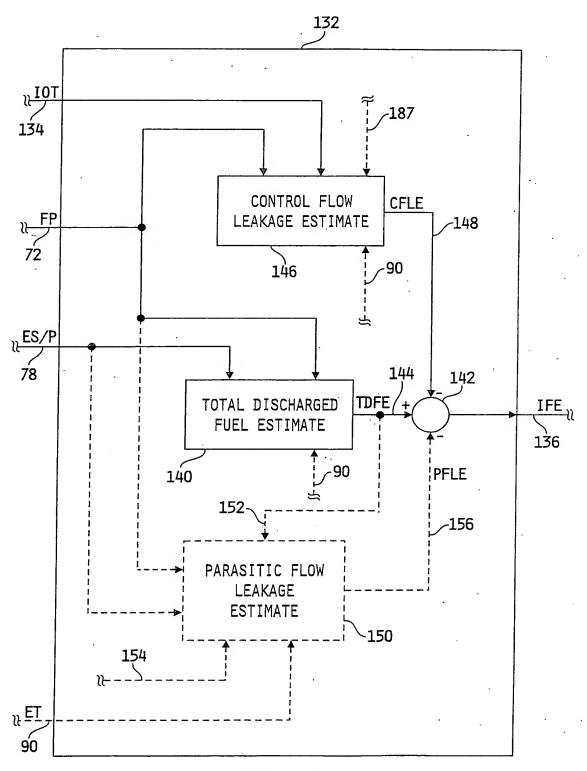


FIG. 5

Title: SYSTEM FOR ESTIMATING A QUANTITY

OF PARASITIC LEAKAGE

Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 6 of 33

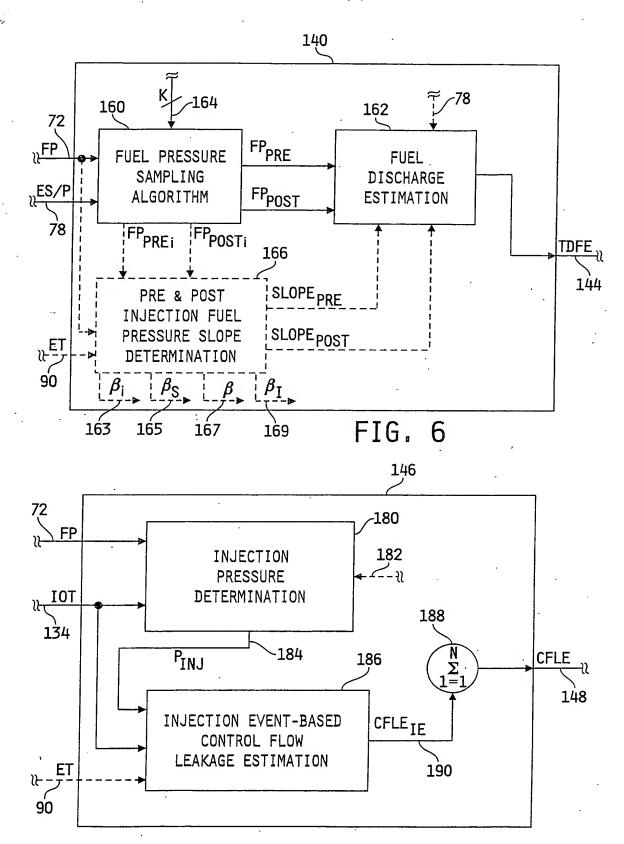
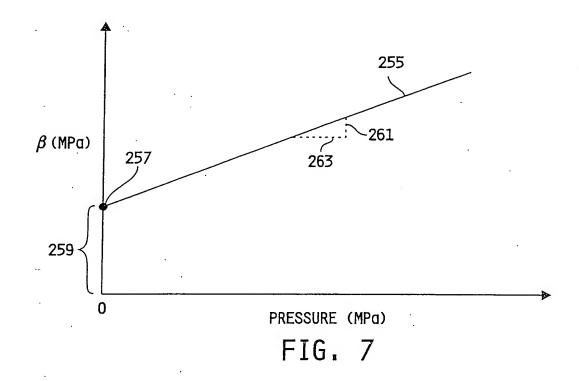


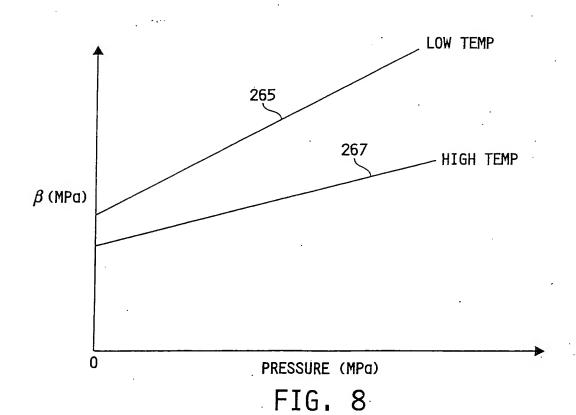
FIG. 14

Title: SYSTEM FOR ESTIMATING A QUANTITY

OF PARASITIC LEAKAGE

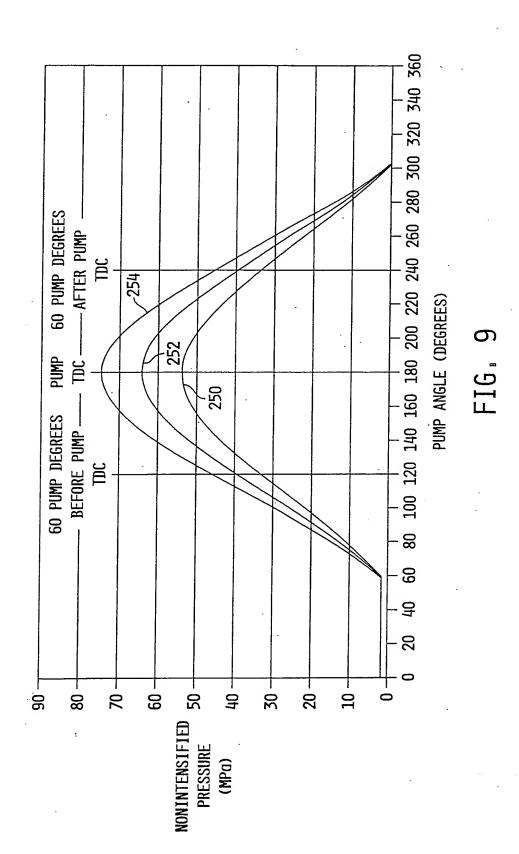
Tanker Tuken, et al. Inventors: Attorney Docket: 29766-70636 Page 7 of 33





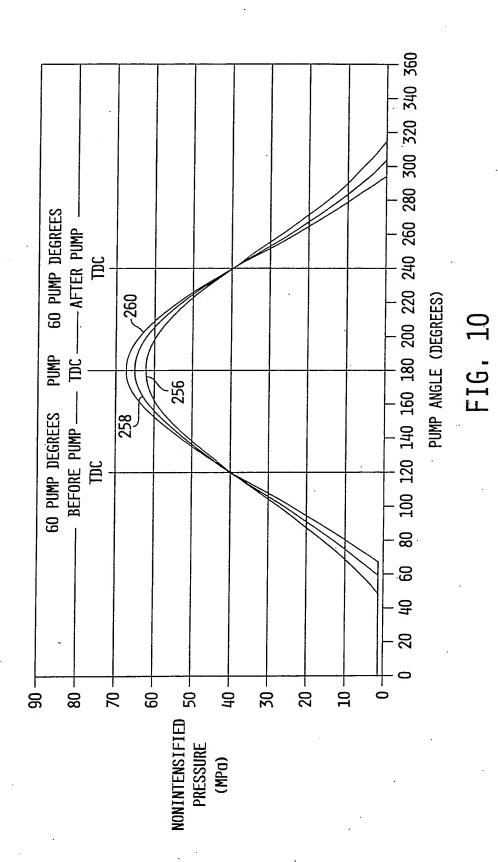
Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 8 of 33



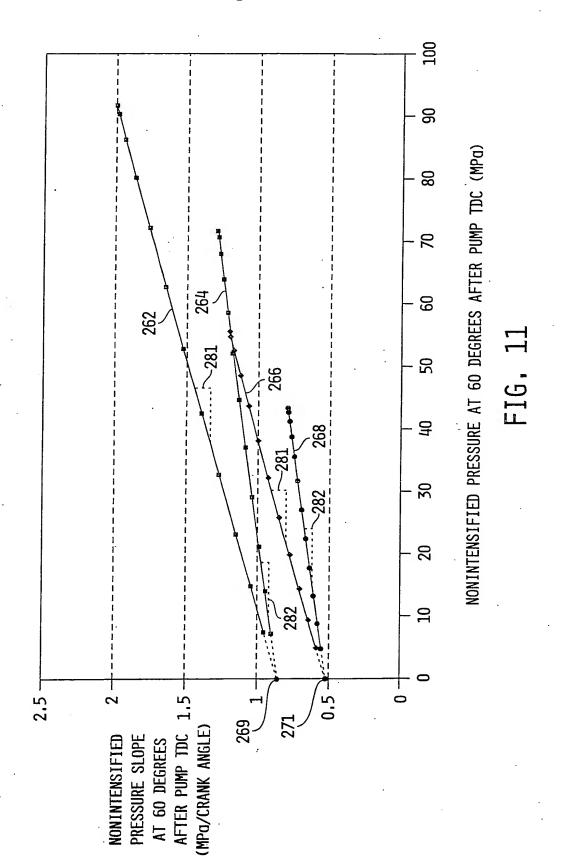
Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 9 of 33



Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 10 of 33



Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 11 of 33

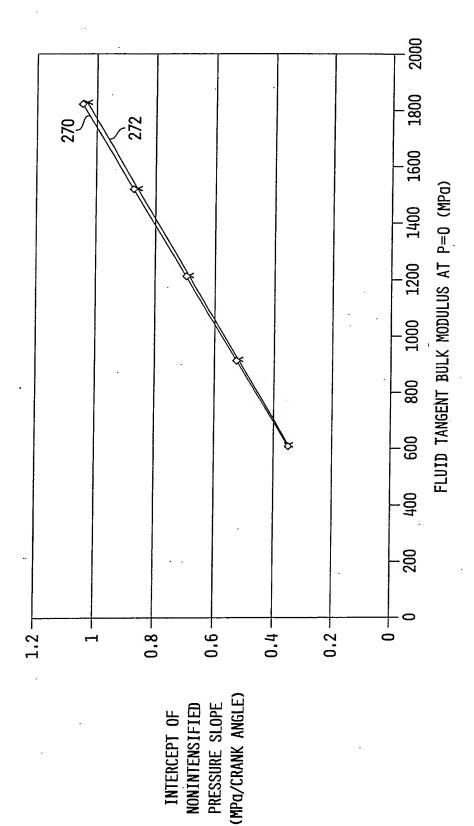
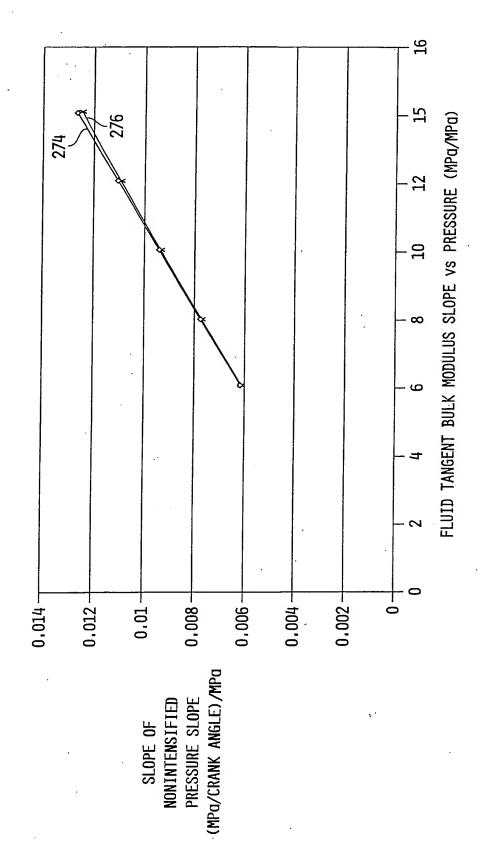


FIG. 12A

Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

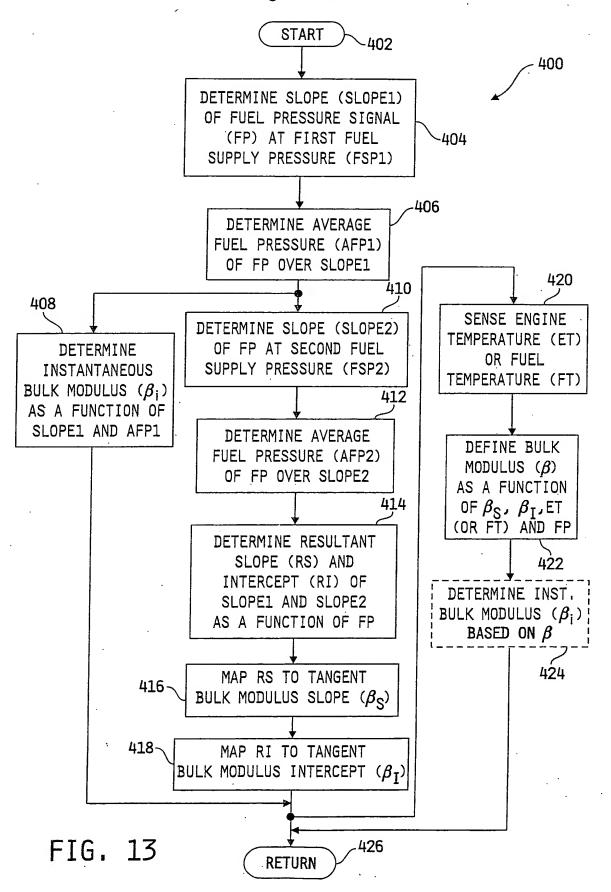
Page 12 of 33



FIG, 12B

Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 13 of 33



Title: SYSTEM FOR ESTIMATING A QUANTITY

OF PARASITIC LEAKAGE

Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 14 of 33

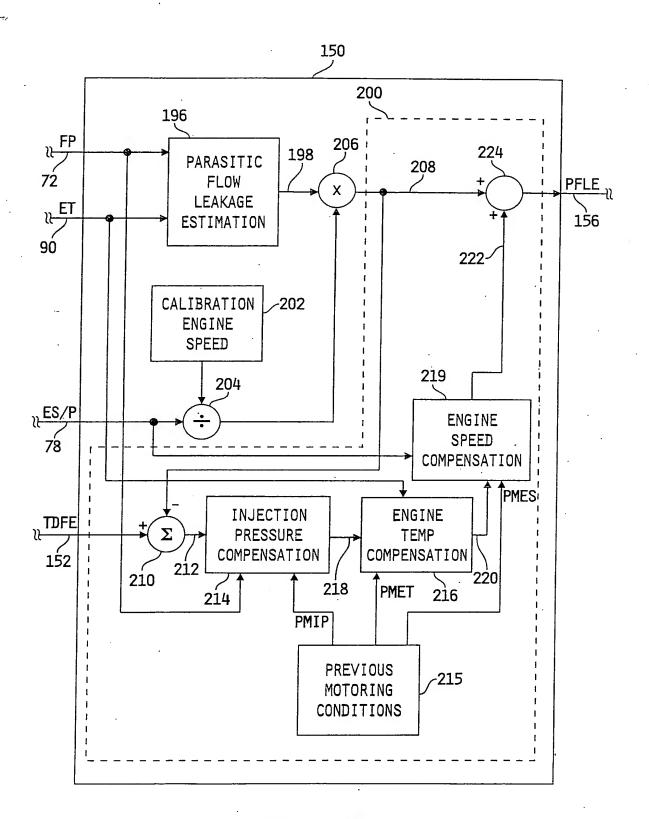
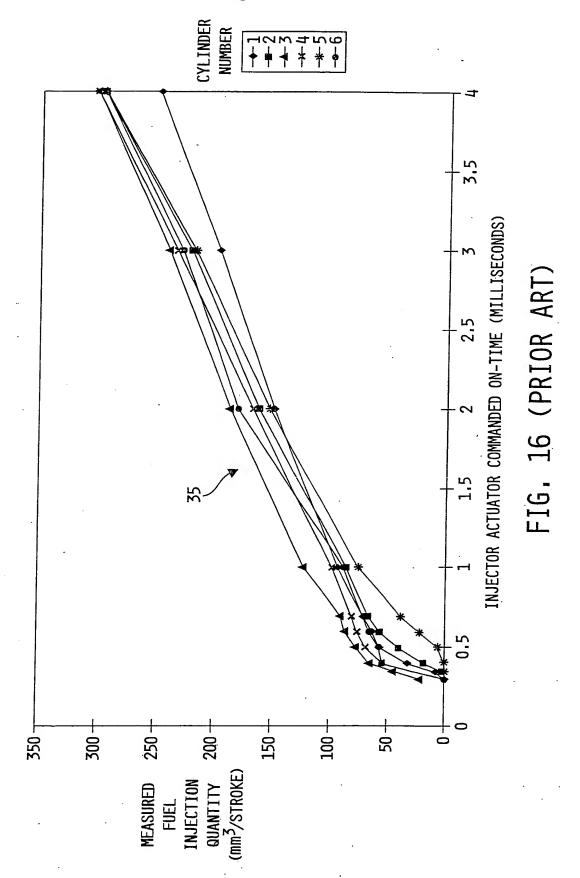


FIG. 15

Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 15 of 33



Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 16 of 33

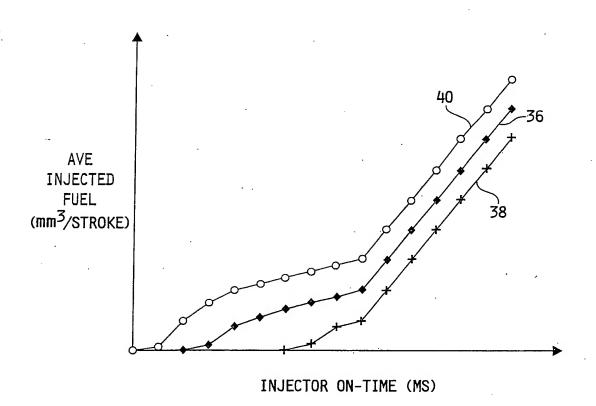
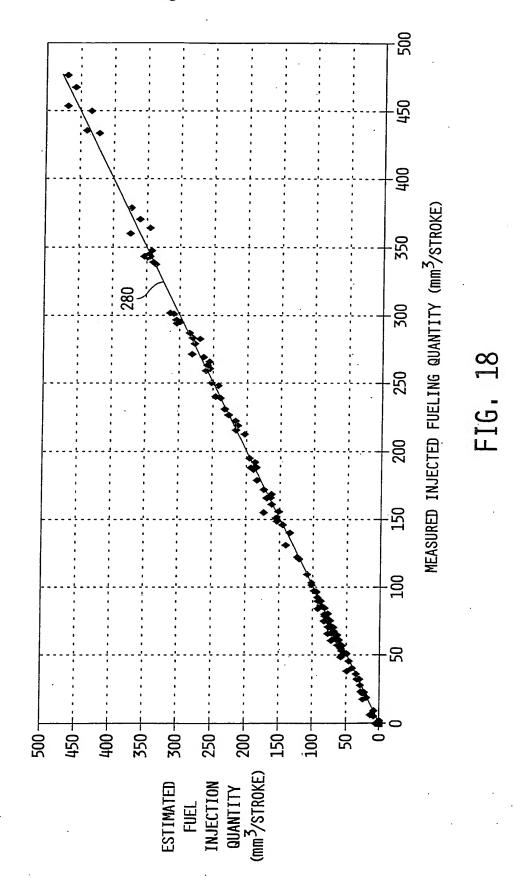


FIG. 17 (PRIOR ART)

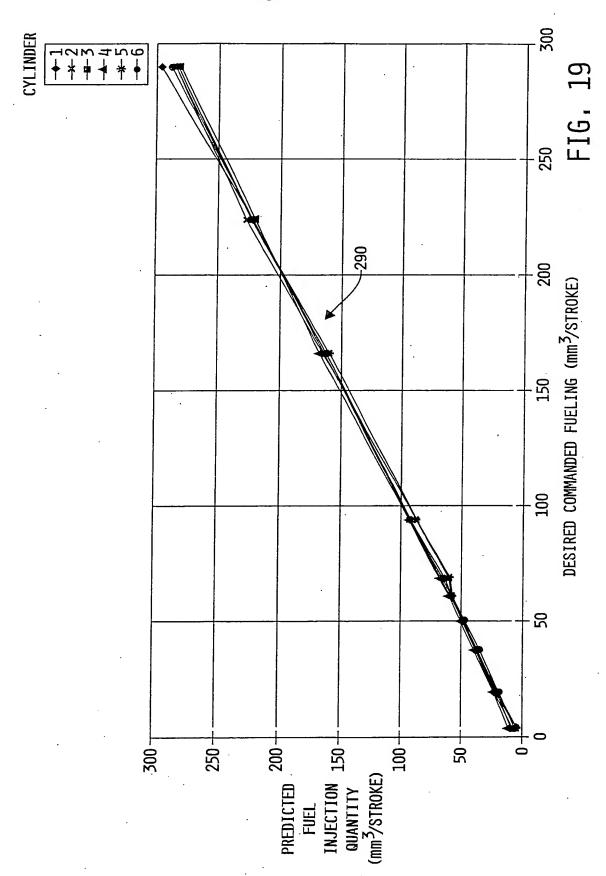
Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 17 Of 33



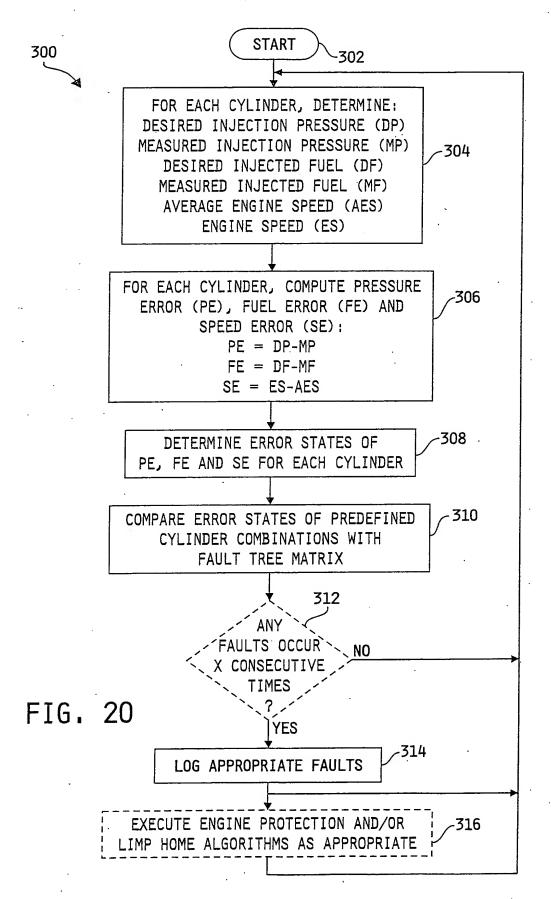
Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 18 of 33



Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 19 of 33



Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 20 of 33

308

IF PE > PE THRESHOLD1 ; PE STATE = HIGH

IF PE < PE THRESHOLD2 ; PE STATE = LOW</pre>

IF PE THRESHOLD2  $\leq$  PE  $\leq$  PE THRESHOLD1; PE STATE = NORMAL

•

FIG. 21

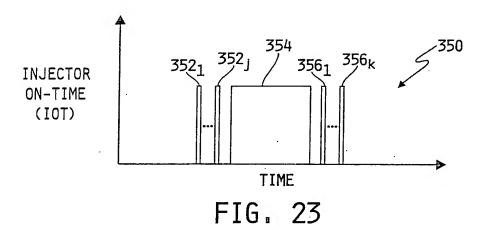
310

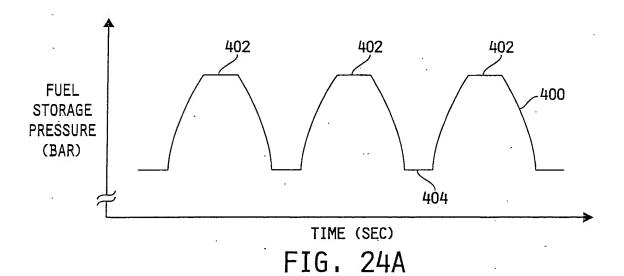
CYL #	PE STATE	FE STATE	SE STATE	FAULT
1 2 3	LOW NORMAL NORMAL	HIGH NORMAL NORMAL	HIGH NORMAL NORMAL	OVERFUELING CYL #1
•	•	•	:	• .
1 2 3	NORMAL/LOW NORMAL/LOW NORMAL/LOW	HIGH HIGH HIGH	NORMAL NORMAL HIGH	CONTINUOUSLY OVERFUELING CYL # 3
•	•	•	3 ● ●	•

FIG. 22

Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 21 of 33





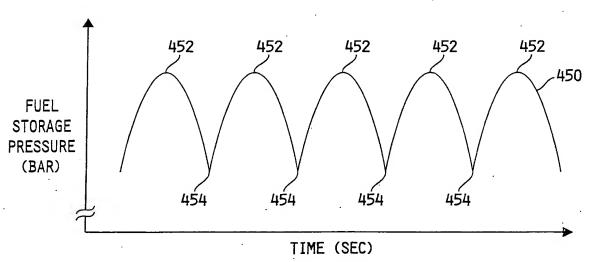
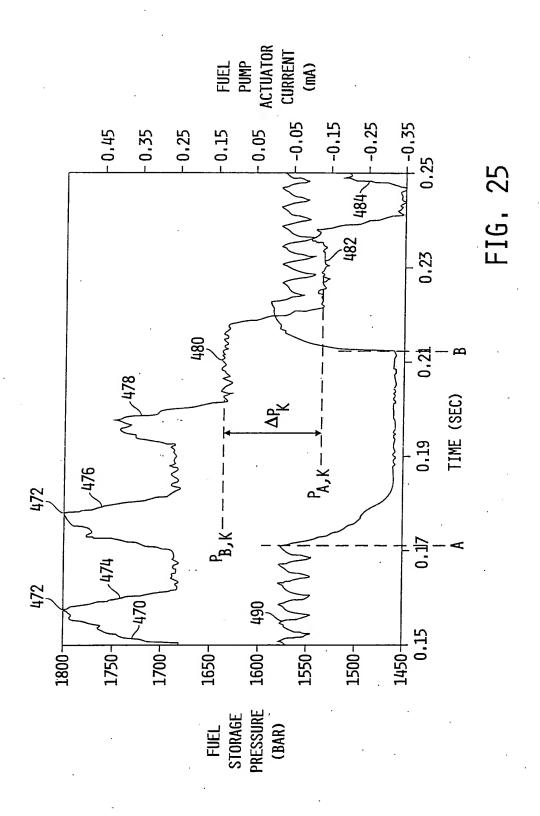


FIG. 24B

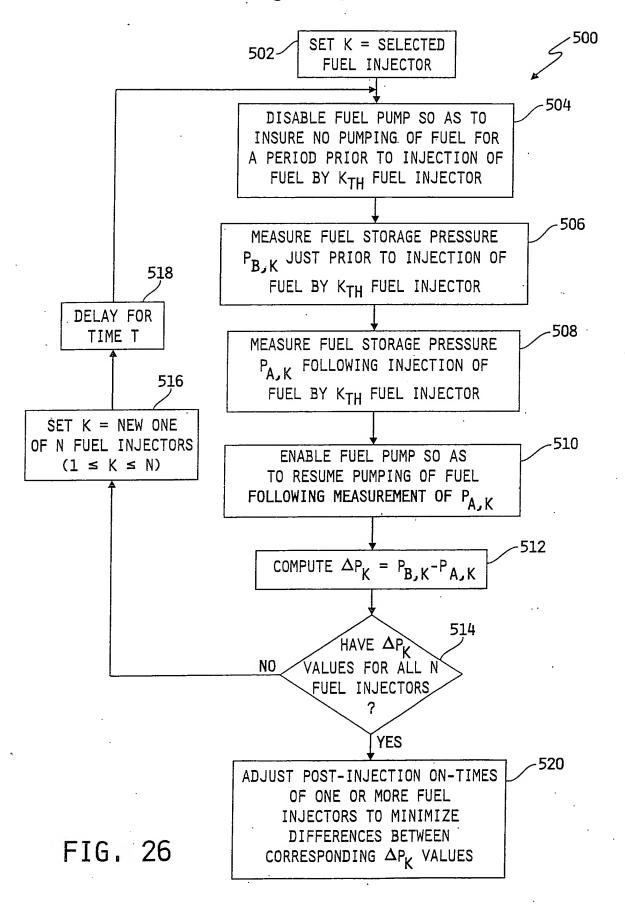
Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 22 of 33

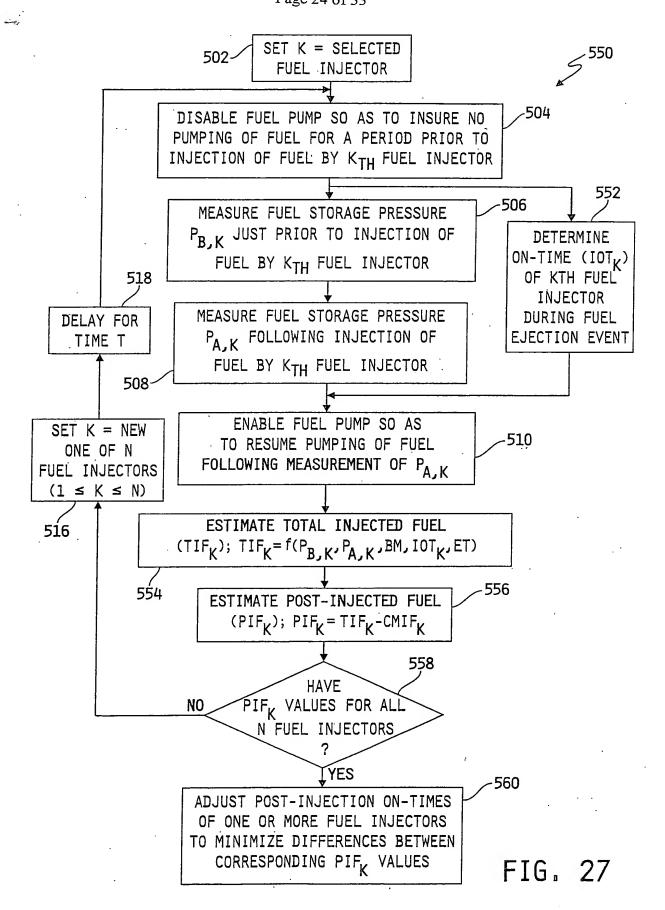


Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

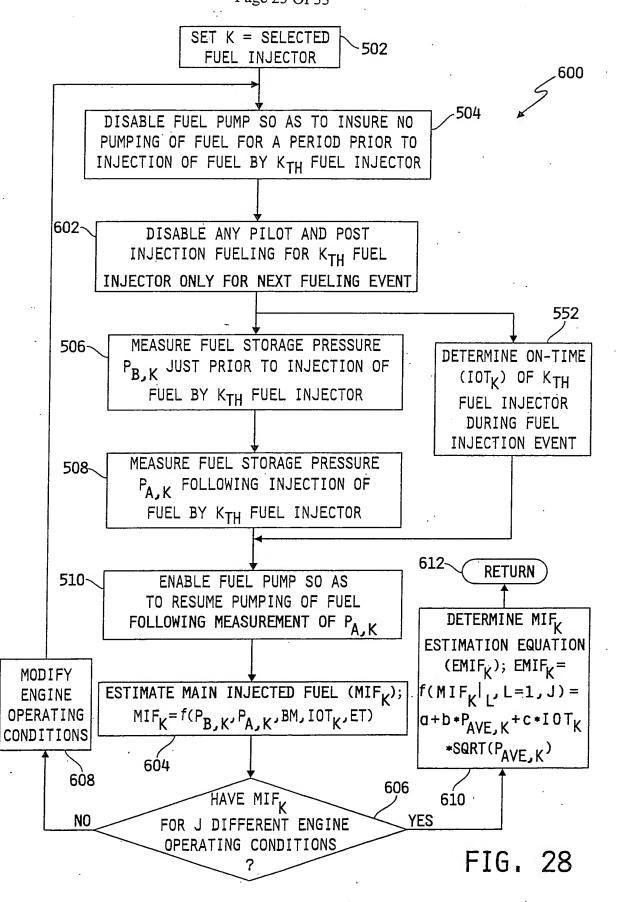
Page 23 of 33



Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636 Page 24 of 33

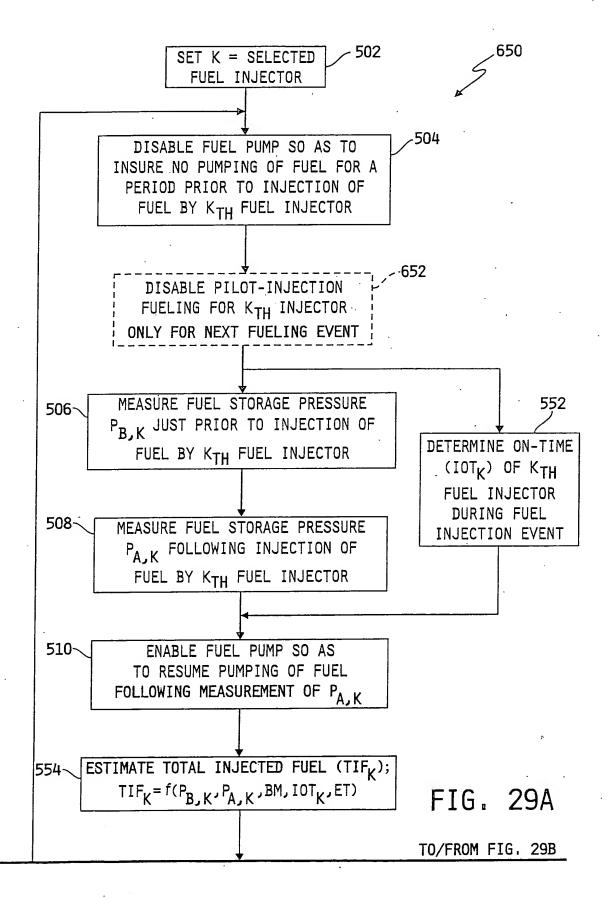


Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636 Page 25 Of 33



Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 26 of 33



Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 27 of 33

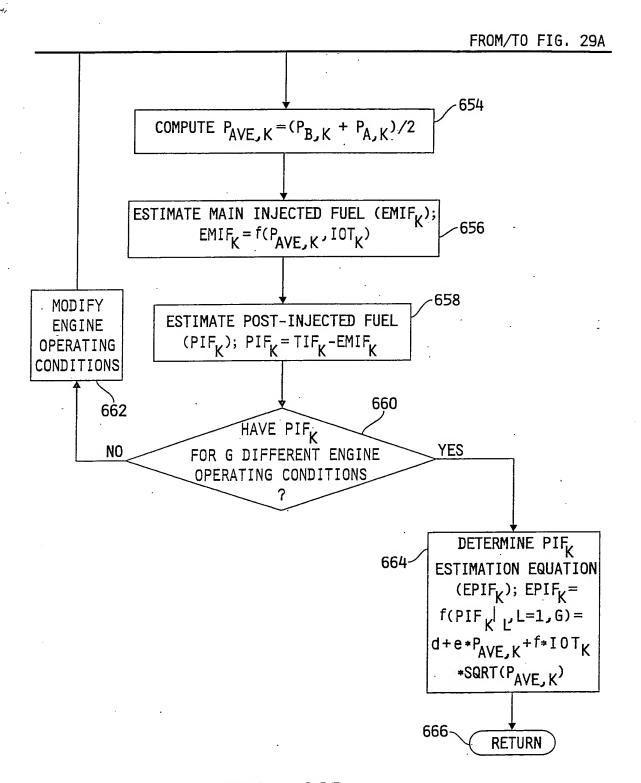


FIG. 29B

#### Title: SYSTEM FOR ESTIMATING A QUANTITY

OF PARASITIC LEAKAGE Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636 Page 28 of 33

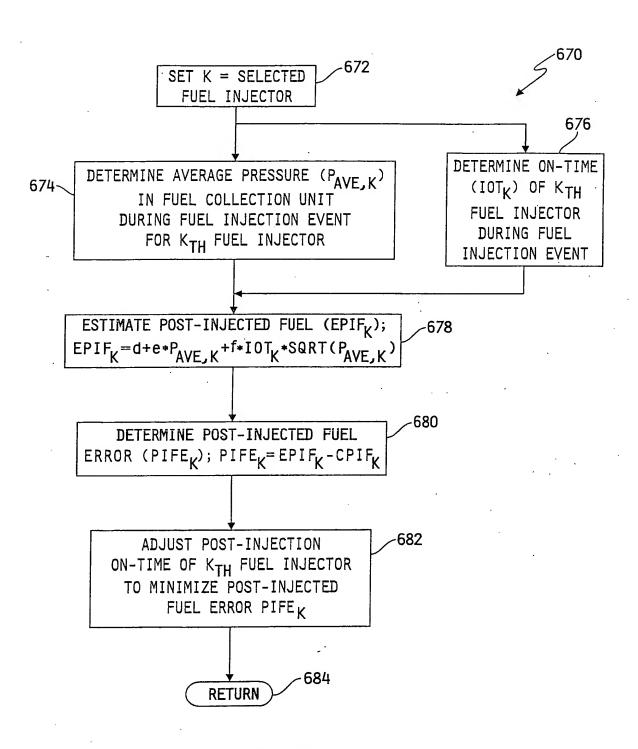
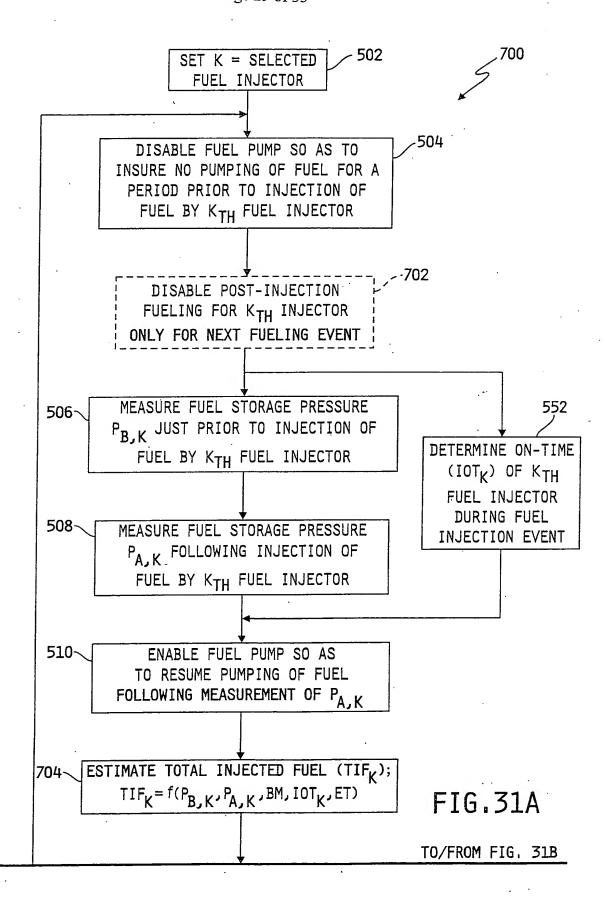


FIG.30

Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636 Page 29 of 33



Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 30 of 33

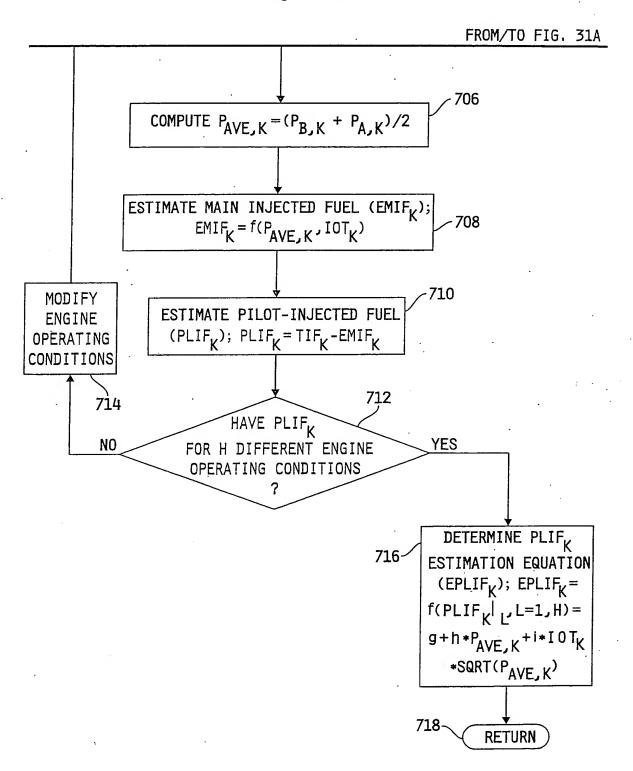


FIG. 31B

Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636 Page 31 of 33

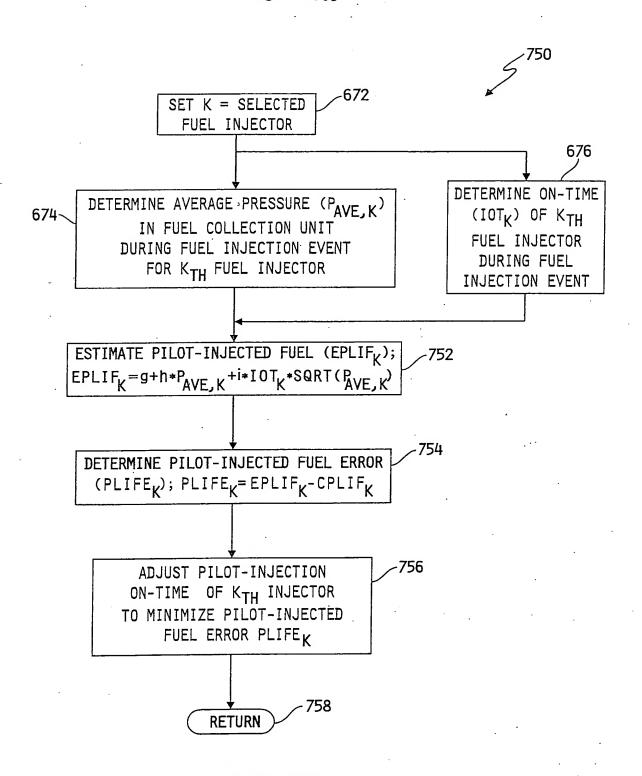


FIG.32

Inventors: Tanker Tuken, et al. Attorney Docket: 29766-70636

Page 32 of 33

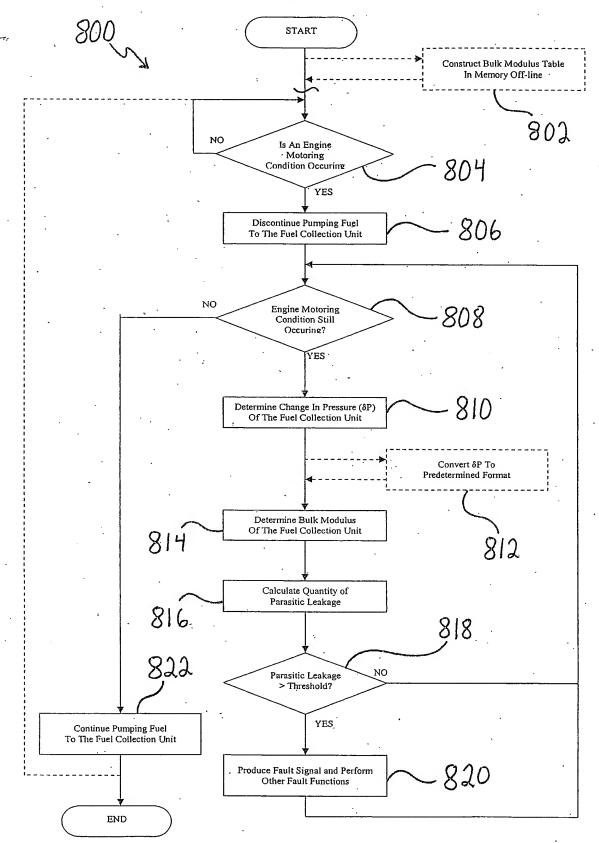


FIGURE 33

Title: SYSTEM FOR ESTIMATING A QUANTITY
OF PARASITIC LEAKAGE
Inventors: Tanker Tuken, et al.

Attorney Docket: 29766-70636

Page 33 of 33

Peralure	, c					
Fuel Temperature	Ban	Salar				Bun
• •	a o	e . e		. •	9	•
	B B	9 , de		ø		D)
Fue	A sa	By S	•	ø·.		Bass
77.		By,		• · ·	6	Bmi
Fuel Pressure	Value a Foel Pressore	Foci Pressure	6	8	69	Frel Pressure